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CERTIFICATE OI Applicant(s): Kazuhid	10 /15223460				
Application No. Unassigned	Filing Date February 4, 2005	Examiner Unassigned	Customer No. 022913	Group Art Unit Unassigned	
Invention: SINGLE M	ODE OPTICAL FIBER	WITH ELECTRON VACANCIES			
I hereby certify that the following correspondence: Transmittal Letter (2 pgs, in duplicate); Preliminary Amendment (19 pgs.); Combined Declaration and Power of Attorney (5 pgs.) Assignment (4 pgs.); International PCT Application (9 pgs.) English Translation of International Application (28 pgs.); Copy of International Search Report (4 pgs.) Verification of Translation (1 pg.); Official drawings (10 pgs.); Amended drawings (5 pgs) PTO-2038 form; postcard; and Certificate of Express Mailing Label (Identify type of correspondence) is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on					
	February 5, 2005 (Date) Andrea H. Maxfield (Typed or Printed Name of Person Mailing Correspondence) (Signature of Person Mailing Correspondence)				
		EV 566 18 ("Express Mail" Mail			

Note: Each paper must have its own certificate of mailing.

FORM PTO-1390 (Modified)... U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE REV. 12-2004) ATTORNEY'S DOCKET NUMBER 14321.65 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) 10/523460 CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 PRIORITY DATE CLAIMED INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE April 17, 2003 PCT/JP2004/004504 March 30, 2004 TITLE OF INVENTION SINGLE MODE OPTICAL FIBER WITH ELECTRON VACANCIES APPLICANT(S) FOR DO/EO/US Kazuhide Nakajima Katsusuke Tajima Jian Zhou Kazuo Hogari Isumi Sankawa Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 1. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 2. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), 3. (9) and (24) indicated below. \boxtimes The US has been elected (Article 31). 4. 5. \boxtimes A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) is attached hereto (required only if not communicated by the International Bureau). b. 🛛 has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). 6. a. Ø is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). b. 🗆 M Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) 7. are attached hereto (required only if not communicated by the International Bureau). a. 🗆 Ø have been communicated by the International Bureau. b. have not been made; however, the time limit for making such amendments has NOT expired. c. d. 🗆 have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 8. \boxtimes \boxtimes An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 9. An English language translation of the annexes to the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371 (c)(5)). A copy of the International Preliminary Examination Report (PCT/IPEA/409). 11. 12. \boxtimes A copy of the International Search Report (PCT/ISA/210). Items 13 to 23 below concern document(s) or information included: 13. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. \boxtimes 14. Ø 15. A FIRST preliminary amendment. 16. A SECOND or SUBSEQUENT preliminary amendment. 17. A substitute specification. \boxtimes A power of attorney and/or change of address letter. 18. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 19. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 20. 21. A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). \boxtimes 22. Express Mail Label No. EV 566 183 617 US 23. \boxtimes Other items or information: Postcard

DT01 Rec'd PCT/PTC PD-F

Approved for use through 3/31/2007. OMB 0651-0201

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. U.S. APPLICATION NO (If known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER PCT/JP2004/004504 14321.65 Applicant use Office use 24. The following fees are submitted: \$300.00 \$200.00 \$200.00 \$500.00 \$500.00 TOTAL OF ABOVE CALCULATIONS = \$1000.00 \$1,000.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. RATE Number of each additional 50 or **Total Sheets** Extra Sheets fraction thereof (round up to a whole /50 = \$250.00 \$ \$0.00 - 100 = Surcharge of \$130.00 for furnishing the oath or declaration later than months from the \$ earliest claimed priority date (37 CFR 1.492(e)). RATE **NUMBER FILED** NUMBER EXTRA **CLAIMS** \$0.00 Total claims - 20 = O X \$50.00 Independent claims - 3= x \$200.00 \$0.00 MULTIPLE DEPENDENT CLAIMS (if applicable) \$360.00 \$0.00 **TOTAL OF ABOVE CALCULATIONS =** \$ \$1,000.00 ☐ . Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are \$0.00 reduced by 1/2. SUBTOTAL = \$1,000.00 Processing fee of \$130.00 for furnishing the English translation later than 30 months from \$0.00 the earliest claimed priority date (37 CFR 1.492(f)). \$1,000.00 TOTAL NATIONAL FEE = Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property \$40.00 \$1,040.00 **TOTAL FEES ENCLOSED =** Amount to be refunded: \$ Amount to be charged: A check in the amount of \$ to cover the above fees is enclosed. to cover the above fees. Please charge my Deposit Account No. in the amount of A duplicate copy of this sheet is c. X The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-3178 . A duplicate copy of this sheet is enclosed. information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: ERIC M. KAMERATH SIGNATURE Registration No. 46,081 Eric M. Kamerath Customer No. 022913 NAME 46,081 REGISTRATION NUMBER

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re International Application of

Kazuhide NAKAJIMA, Katsusuke TAJIMA, Jian ZHOU, Izumi SANKAWA, and Kazuo HOGARI

International Application No.: PCT/JP2004/004504

International filing date:

March 30, 2004

For: SINGLE MODE OPTICAL FIBER WITH ELECTRON VACANCIES

VERIFICATION OF TRANSLATION

Honorable Commissioner of Patent and Trademark Washington, D.C. 20231 Sir:

Tatsuji TAKANASHI residing at c/o TANI & ABE, 6-20, Akasaka 2-chome, Minato-ku, Tokyo 107-0052, Japan, declares:

- (1) that he knows well both the Japanese and English languages;
- that he translated the claims of the (2) above-identified International Application from Japanese to English;
- (3) that the attached English translation is a true and correct translation of the claims, specification and drawings of the above-identified International Application to the best of his knowledge and belief; and
- (4) that all statements made of his own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements are made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 USC 1001, and that such false statements may jeopardize the validity of the application or any patent issuing thereon.

December 1, 2004

Tatrije lakanoshi

Tatsuji TAKANASHI

Date